



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/755,466

DATE: 09/17/2004

TIME: 10:41:44

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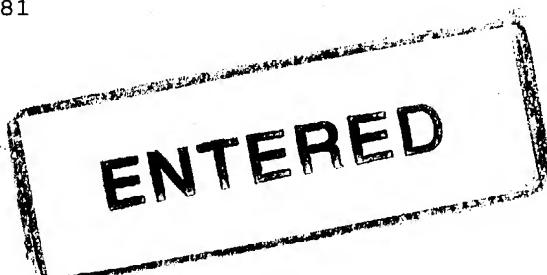
1 <110> APPLICANT: HIDAKA , Jun et al.
2 <120> TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS
EXHIBITING LIGAND-

3 BINDING ACTIVITIES, AND THEIR USES
4 <130> FILE REFERENCE: 0020-4827P
5 <140> CURRENT APPLICATION NUMBER: US/10/755,466
6 <141> CURRENT FILING DATE: 2004-01-13
7 <150> PRIOR APPLICATION NUMBER: US/09/786,681
8 <151> PRIOR FILING DATE: 2001-04-30
9 <160> NUMBER OF SEQ ID NOS: 7
10 <170> SOFTWARE: PatentIn version 3.0
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 2072
14 <212> TYPE: DNA
15 <213> ORGANISM: Homo sapiens
16 <220> FEATURE:
17 <221> NAME/KEY: CDS
18 <222> LOCATION: (49)..(1794)

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22 1
23 cga gcg gcc gcc gcg ctg tgg ctg ctg ctg ctg ctg ccc cgg acc 105
24 Arg Ala Ala Ala Ala Leu Trp Leu Leu Leu Leu Leu Pro Arg Thr
25 5 10 15
26 cgg gcg gac gag cac gaa cac acg tat caa gat aaa gag gaa gtt gtc 153
27 Arg Ala Asp Glu His Glu His Thr Tyr Gln Asp Lys Glu Glu Val Val
28 20 25 30 35
29 tta tgg atg aat act gtt ggg ccc tac cat aat cgt caa gaa aca tat 201
30 Leu Trp Met Asn Thr Val Gly Pro Tyr His Asn Arg Gln Glu Thr Tyr
31 40 45 50
32 aag tac ttt tca ctt cca ttc tgt gtg ggg tca aaa aaa agt atc agt 249
33 Lys Tyr Phe Ser Leu Pro Phe Cys Val Gly Ser Lys Lys Ser Ile Ser
34 55 60 65
35 cat tac cat gaa act ctg gga gaa gca ctt caa ggg gtt gaa ttg gaa 297
36 His Tyr His Glu Thr Leu Gly Glu Ala Leu Gln Gly Val Glu Leu Glu
37 70 75 80
38 ttt agt ggt ctg gat att aaa ttt aaa gat gat gtg atg cca gcc act 345
39 Phe Ser Gly Leu Asp Ile Lys Phe Lys Asp Asp Val Met Pro Ala Thr
40 85 90 95
41 tac tgt gaa att gat tta gat aaa gaa aag aga gat gca ttt gta tat 393
42 Tyr Cys Glu Ile Asp Leu Asp Lys Glu Lys Arg Asp Ala Phe Val Tyr
43 100 105 110 115
44 gcc ata aaa aat cat tac tgg tac caq atq tac ata gat gat tta cca 441

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45	Ala Ile Lys Asn His Tyr Trp Tyr Gln Met Tyr Ile Asp Asp Leu Pro			
46	120	125	130	
47	ata tgg ggt att gtt ggt gag gct gat gaa aat gga gaa gat tac tat		489	
48	Ile Trp Gly Ile Val Gly Glu Ala Asp Glu Asn Gly Glu Asp Tyr Tyr			
49	135	140	145	
50	ctt tgg acc tat aaa aaa ctt gaa ata ggt ttt aat gga aat cga att		537	
51	Leu Trp Thr Tyr Lys Lys Leu Glu Ile Gly Phe Asn Gly Asn Arg Ile			
52	150	155	160	
53	gtt gat gtt aat cta act agt gaa gga aag gtg aaa ctg gtt cca aat		585	
54	Val Asp Val Asn Leu Thr Ser Glu Gly Lys Val Lys Leu Val Pro Asn			
55	165	170	175	
56	act aaa atc cag atg tca tat tca gta aaa tgg aaa aag tca gat gtg		633	
57	Thr Lys Ile Gln Met Ser Tyr Ser Val Lys Trp Lys Lys Ser Asp Val			
58	180	185	190	195
59	aaa ttt gaa gat cga ttt gac aaa tat ctt gat ccg tcc ttt ttt caa		681	
60	Lys Phe Glu Asp Arg Phe Asp Lys Tyr Leu Asp Pro Ser Phe Phe Gln			
61	200	205	210	
62	cat cgg att cat tgg ttt tca att ttc aac tcc ttc atg atg gtg atc		729	
63	His Arg Ile His Trp Phe Ser Ile Phe Asn Ser Phe Met Met Val Ile			
64	215	220	225	
65	ttc ttg gtg ggc tta gtt tca atg att tta atg aga aca tta aga aaa		777	
66	Phe Leu Val Gly Leu Val Ser Met Ile Leu Met Arg Thr Leu Arg Lys			
67	230	235	240	
68	gat tat gct cgg tac agt aaa gag gaa gaa atg gat gat atg gat aga		825	
69	Asp Tyr Ala Arg Tyr Ser Lys Glu Glu Met Asp Asp Met Asp Arg			
70	245	250	255	
71	gac cta gga gat gaa tat gga tgg aaa cag gtg cat gga gat gta ttt		873	
72	Asp Leu Gly Asp Glu Tyr Gly Trp Lys Gln Val His Gly Asp Val Phe			
73	260	265	270	275
74	aga cca tca agt cac cca ctg ata ttt tcc tct ctg att ggt tct gga		921	
75	Arg Pro Ser Ser His Pro Leu Ile Phe Ser Ser Leu Ile Gly Ser Gly			
76	280	285	290	
77	tgt cag ata ttt gct gtg tct ctc atc gtt att att gtt gca atg ata		969	
78	Cys Gln Ile Phe Ala Val Ser Leu Ile Val Ile Ile Val Ala Met Ile			
79	295	300	305	
80	gaa gat tta tat act gag agg gga tca atg ctc agt aca gcc ata ttt		1017	
81	Glu Asp Leu Tyr Thr Glu Arg Gly Ser Met Leu Ser Thr Ala Ile Phe			
82	310	315	320	
83	gtc tat gct acg tct cca gtg aat ggt tat ttt gga gga agt ctg		1065	
84	Val Tyr Ala Ala Thr Ser Pro Val Asn Gly Tyr Phe Gly Gly Ser Leu			
85	325	330	335	
86	tat gct aga caa gga gga agg aga tgg ata aag cag atg ttt att ggg		1113	
87	Tyr Ala Arg Gln Gly Gly Arg Arg Trp Ile Lys Gln Met Phe Ile Gly			
88	340	345	350	355
89	gca ttc ctt atc cca gct atg gtg tgt ggc act gcc ttc ttc atc aat		1161	
90	Ala Phe Leu Ile Pro Ala Met Val Cys Gly Thr Ala Phe Phe Ile Asn			
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92	ttc ata gcc att tat tac cat gct tca aga gcc att cct ttt gga aca		1209	
93	Phe Ile Ala Ile Tyr His Ala Ser Arg Ala Ile Pro Phe Gly Thr			

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96	Met Val Ala Val Cys Cys Ile Cys Phe Phe Val Ile Leu Pro Leu Asn			
97	390	395	400	
98	ctt gtt ggt aca ata ctt ggc cga aat ctg tca ggt cag ccc aac ttt			1305
99	Leu Val Gly Thr Ile Leu Gly Arg Asn Leu Ser Gly Gln Pro Asn Phe			
100	405	410	415	
101	cct tgt cgt gtc aat gct gtg cct cgt cct ata ccg gag aaa aaa tgg			1353
102	Pro Cys Arg Val Asn Ala Val Pro Arg Pro Ile Pro Glu Lys Lys Trp			
103	420	425	430	435
104	ttc atg gag cct gcg gtt att gtt tgc ctg ggt gga att tta cct ttt			1401
105	Phe Met Glu Pro Ala Val Ile Val Cys Leu Gly Gly Ile Leu Pro Phe			
106	440	445	450	
107	ggt tca atc ttt att gaa atg tat ttc atc ttc acg tct ttc tgg gca			1449
108	Gly Ser Ile Phe Ile Glu Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala			
109	455	460	465	
110	tat aag atc tat tat gtc tat ggc ttc atg atg ctg gtg ctg gtt atc			1497
111	Tyr Lys Ile Tyr Tyr Val Tyr Gly Phe Met Met Leu Val Leu Val Ile			
112	470	475	480	
113	ctg tgc att gtg act gtc tgt gtg act att gtg tgc aca tat ttt cta			1545
114	Leu Cys Ile Val Thr Val Cys Val Thr Ile Val Cys Thr Tyr Phe Leu			
115	485	490	495	
116	cta aat gca gaa gat tac cgg tgg caa tgg aca agt ttt ctc tct gct			1593
117	Leu Asn Ala Glu Asp Tyr Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala			
118	500	505	510	515
119	gca tca act gca atc tat gtt tac atg tat tcc ttt tac tac tat ttt			1641
120	Ala Ser Thr Ala Ile Tyr Val Tyr Met Tyr Ser Phe Tyr Tyr Tyr Phe			
121	520	525	530	
122	ttc aaa aca aag atg tat ggc tta ttt caa aca tca ttt tac ttt gga			1689
123	Phe Lys Thr Lys Met Tyr Gly Leu Phe Gln Thr Ser Phe Tyr Phe Gly			
124	535	540	545	
125	tat atg gcg gta ttt agc aca gcc ttg ggg ata atg tgt gga gcg att			1737
126	Tyr Met Ala Val Phe Ser Thr Ala Leu Gly Ile Met Cys Gly Ala Ile			
127	550	555	560	
128	ggt tac atg gga aca agt gcc ttt gtc cga aaa atc tat act aat gtg			1785
129	Gly Tyr Met Gly Thr Ser Ala Phe Val Arg Lys Ile Tyr Thr Asn Val			
130	565	570	575	
131	aaa att gac tagagaccca agaaaaacctg gaactttgga tcaatttctt			1834
132	Lys Ile Asp			
133	580			
134	tttcataggg gtggaacttg cacagaaaa acaaacaac gcaagaagag atttgggctt			1894
135	taactttttt ttttttttt ttttttttt tacgaatgag gcaatttatt			1954
136	aaccgcgcat ggttgttct aatgcttctt gttggcagct gccacctgtc cggcgattct			2014
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141	<212> TYPE: PRT			
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144 Met His Ala Arg Ala Ala Ala Leu Trp Leu Leu Leu Leu Leu
 145 1 5 10 15
 146 Pro Arg Thr Arg Ala Asp Glu His Glu His Thr Tyr Gln Asp Lys Glu
 147 20 25 30
 148 Glu Val Val Leu Trp Met Asn Thr Val Gly Pro Tyr His Asn Arg Gln
 149 35 40 45
 150 Glu Thr Tyr Lys Tyr Phe Ser Leu Pro Phe Cys Val Gly Ser Lys Lys
 151 50 55 60
 152 Ser Ile Ser His Tyr His Glu Thr Leu Gly Glu Ala Leu Gln Gly Val
 153 65 70 75 80
 154 Glu Leu Glu Phe Ser Gly Leu Asp Ile Lys Phe Lys Asp Asp Val Met
 155 85 90 95
 156 Pro Ala Thr Tyr Cys Glu Ile Asp Leu Asp Lys Glu Lys Arg Asp Ala
 157 100 105 110
 158 Phe Val Tyr Ala Ile Lys Asn His Tyr Trp Tyr Gln Met Tyr Ile Asp
 159 115 120 125
 160 Asp Leu Pro Ile Trp Gly Ile Val Gly Glu Ala Asp Glu Asn Gly Glu
 161 130 135 140
 162 Asp Tyr Tyr Leu Trp Thr Tyr Lys Lys Leu Glu Ile Gly Phe Asn Gly
 163 145 150 155 160
 164 Asn Arg Ile Val Asp Val Asn Leu Thr Ser Glu Gly Lys Val Lys Leu
 165 165 170 175
 166 Val Pro Asn Thr Lys Ile Gln Met Ser Tyr Ser Val Lys Trp Lys Lys
 167 180 185 190
 168 Ser Asp Val Lys Phe Glu Asp Arg Phe Asp Lys Tyr Leu Asp Pro Ser
 169 195 200 205
 170 Phe Phe Gln His Arg Ile His Trp Phe Ser Ile Phe Asn Ser Phe Met
 171 210 215 220
 172 Met Val Ile Phe Leu Val Gly Leu Val Ser Met Ile Leu Met Arg Thr
 173 225 230 235 240
 174 Leu Arg Lys Asp Tyr Ala Arg Tyr Ser Lys Glu Glu Glu Met Asp Asp
 175 245 250 255
 176 Met Asp Arg Asp Leu Gly Asp Glu Tyr Gly Trp Lys Gln Val His Gly
 177 260 265 270
 178 Asp Val Phe Arg Pro Ser Ser His Pro Leu Ile Phe Ser Ser Leu Ile
 179 275 280 285
 180 Gly Ser Gly Cys Gln Ile Phe Ala Val Ser Leu Ile Val Ile Val
 181 290 295 300
 182 Ala Met Ile Glu Asp Leu Tyr Thr Glu Arg Gly Ser Met Leu Ser Thr
 183 305 310 315 320
 184 Ala Ile Phe Val Tyr Ala Ala Thr Ser Pro Val Asn Gly Tyr Phe Gly
 185 325 330 335
 186 Gly Ser Leu Tyr Ala Arg Gln Gly Gly Arg Arg Trp Ile Lys Gln Met
 187 340 345 350
 188 Phe Ile Gly Ala Phe Leu Ile Pro Ala Met Val Cys Gly Thr Ala Phe
 189 355 360 365
 190 Phe Ile Asn Phe Ile Ala Ile Tyr Tyr His Ala Ser Arg Ala Ile Pro
 191 370 375 380
 192 Phe Gly Thr Met Val Ala Val Cys Cys Ile Cys Phe Phe Val Ile Leu

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Input Set : N:\CrF3\RULE60\10755466.raw
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193	385	390	395	400
194	Pro Leu Asn Leu Val Gly Thr Ile Leu Gly Arg Asn Leu Ser Gly Gln			
195	405		410	415
196	Pro Asn Phe Pro Cys Arg Val Asn Ala Val Pro Arg Pro Ile Pro Glu			
197	420		425	430
198	Lys Lys Trp Phe Met Glu Pro Ala Val Ile Val Cys Leu Gly Gly Ile			
199	435		440	445
200	Leu Pro Phe Gly Ser Ile Phe Ile Glu Met Tyr Phe Ile Phe Thr Ser			
201	450		455	460
202	Phe Trp Ala Tyr Lys Ile Tyr Tyr Val Tyr Gly Phe Met Met Leu Val			
203	465		470	475
204	Leu Val Ile Leu Cys Ile Val Thr Val Cys Val Thr Ile Val Cys Thr			
205	485		490	495
206	Tyr Phe Leu Leu Asn Ala Glu Asp Tyr Arg Trp Gln Trp Thr Ser Phe			
207	500		505	510
208	Leu Ser Ala Ala Ser Thr Ala Ile Tyr Val Tyr Met Tyr Ser Phe Tyr			
209	515		520	525
210	Tyr Tyr Phe Phe Lys Thr Lys Met Tyr Gly Leu Phe Gln Thr Ser Phe			
211	530		535	540
212	Tyr Phe Gly Tyr Met Ala Val Phe Ser Thr Ala Leu Gly Ile Met Cys			
213	545		550	555
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230	ccc cgg acc cgg gcg gac gag cac gaa cac acg tat caa gat aaa gag			97
231	Pro Arg Thr Arg Ala Asp Glu His Glu His Thr Tyr Gln Asp Lys Glu			
232	15 20 25			
233	gaa gtt gtc tta tgg atg aat act gtt ggg ccc tac cat aat cgt caa			145
234	Glu Val Val Leu Trp Met Asn Thr Val Gly Pro Tyr His Asn Arg Gln			
235	30 35 40 45			
236	gaa aca tat aag tac ttt tca ctt cca ttc tgt gtg ggg tca aaa aaa			193
237	Glu Thr Tyr Lys Tyr Phe Ser Leu Pro Phe Cys Val Gly Ser Lys Lys			
238	50 55 60			
239	agt atc agt cat tac cat gaa act ctg gga gaa gca ctt caa ggg gtt			241
240	Ser Ile Ser His Tyr His Glu Thr Leu Gly Glu Ala Leu Gln Gly Val			
241	65 70 75			
242	gaa ttg gaa ttt agt ggt ctg gat att aaa ttt aaa gat gat gtg atg			289

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/17/2004
PATENT APPLICATION: US/10/755,466 TIME: 10:41:45

Input Set : N:\CrF3\RULE60\10755466.raw
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Seq#:7; Line(s) 442

VERIFICATION SUMMARY

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TIME: 10:41:45

Input Set : N:\Crf3\RULE60\10755466.raw

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